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METHOD OF PREVENTING PREIGNITION FOR AN INTERNAL COMBUSTION ENGINE

ABSTRACT OF THE DISCLOSURE

Preignition in an engine is prevented by identifying engine conditions that relate to autoignition. If one or more of the engine conditions exceed a threshold, a controller retards the spark in the engine. The controller detects whether autoignition occurs in the engine due to the retarded spark advance. If autoignition is detected, the controller corrects the one or more engine conditions by at least one of reducing a throttle opening, cutting of fuel to a cylinder, adjusting a camshaft phase, and storing a diagnostic code.